Quarterly Environmental Awareness Training

Working on Ft. Hood

What we're doing today:

1. Environmental Management System
2. HazMat at Work
3. Break (10 minutes)
4. Recycling
5. Cleaning Up After Yourself (Spill Response and Prevention)
6. Oil Water Separators in the Motor Pool
7. Storing Hazardous Materials Safely
8. What to do with Blocking and Bracing from deployments

For the next 6 hours:

- Just kidding!
- Quarterly environmental awareness training is required (Fort Hood Regulation 200-1)
- DPW-ENV: monitors, documents & reports environmental issues
- Assessments – ECAT
- Activities/Units – document this training

Environmental Management System

Same Problem

+ Same Solution

= Nothing Changes

What is Management?

- Figure out where you need to be
- Find out what's stopping you from getting there
- Come up with some ways to get over what's stopping you
- Put you ideas into action
- See if your ideas get you where you need to go

Where do you want to be?

- Depends
- Homeowner – nice lawn
- Farmer – increase crop production

Common problem – not really defining goal

- Homeowner – *nice* lawn or ***safe*** lawn
- Farmer – how **much** does he want to increase crop yield: %

What exactly do you want *and*

How will you define ‘success’

What's stopping you?

- Homeowner – Gopher holes make yard dangerous for kids
- Farmer – Gophers are eating crop

Management of the Goal instead of reacting to the problem

1. Where do you need to go?
2. What's stopping you from getting there?
3. Some ways to get over what's stopping you,
4. Ideas into action,
5. Your ideas get you where you need to go?

1. Goal is to…
2. Gophers? Something else?
3. What to do?
4. Do it
5. Does it work?

What to do:

Poison

Traps

Habitat change

Predator

Repellant

Do it, then Check

Another analogy:

1. PT – What do you want your score to be?
2. What is your score?
3. What, if anything, is keeping you from getting to where you want to be?
4. Try out your ideas.
5. See if it works on your next PT test.

Gophers, PT and the Environment?

1. The Army's goal is to be Sustainable
2. What do we do that is *not* sustainable
3. What could we do different
4. Do it
5. Check if it works

1. Meaning - have a healthy place to work for many years
2. We pollute, buy too much and make too much trash
3. Clean up after ourselves, buy less and recycle more
4. Do it!
5. Fort Hood saved ~ **3 Million** dollars through waste diversion in FY06

Management System – One Step at a Time

Your Environmental Management System

What to do

to get where we want to be

Same Problem

+ Different Solution

= Real Change

Questions?

- EMS stands for Environmental Management System
- Fort Hood uses the SCALE logo to advertise our EMS
- Everyone has a role –
  - Act instea
  - If it's a pr roblem for someone

Hazardous Materials

Getting what you need for work

First – two questions

1. Do <u>you</u> know what is a “hazardous material”
2. Does it make a difference if you’re using it at home versus at work?

1. Label says: Danger, Hazardous, Warning, etc; has an MSDS
2. Yes!

Work HazMat

- Purchase the right way
  - Supply system
  - HazMart
  - PX/Shoppettes – *wrong*
  - Wal-Mart/Lowes/Home Depot - *wrong*
- Must have MSDS
- Used/stored according to directions on label
- Submit inventory to DPW quarterly

How much is too much?

- 7 days stock on hand AR 710-2 (2-20*c*)
- Turn in excess to DRMO/DRSA AR 710–2 (1–31*e*)
- If the same item is counted twice during physical inventories, do we have too much?
- If Hazmat items can be ‘wasted’ out, **it could cost lots of money**

Test: how much Class III (P) should a unit have on hand?

Three Days

One Week

One Month

Three Month

Little more about the HazMart

- 77th and Warehouse
- M-F, 0730-1630
- Operated by San Antonio Lighthouse for the Blind

Buying from the HazMart

- Purchase products with Government Purchase Card
- Cardholder may delegate
- **NO POVs!** Only Government or Contractor owned vehicles may be used for the transport of hazmat

Call the HazMart at 287-2695 or 532-9861

Restricted Use List (RUL) chemicals:

- Very dangerous, harmful to human health
- Legitimate uses – only when required by TM
- RUL chemicals require extra reporting
- Just because you can **get** it doesn't mean you can **use** it

MEK is an example of a chemical that is *restricted* for use on Ft. Hood.

Hazardous Material Containers

1. Always need a lid
2. Always need to be labeled with contents
3. Protect from the elements

Never in tras

go to Classification Unit (CU) 288-7627

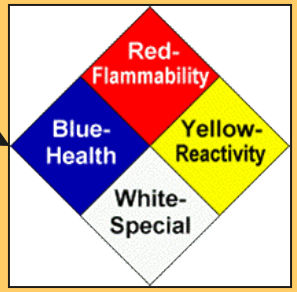
material containers need to be CORRECTLY labeled – if you need to, just re-label the container!

Instant Label Machine

- If a container you're using is not labeled…
- Write the contents!

Buildings, storage areas

Vehicles



Protecting Hazmat

- Cover all containers
- Protect from spills (and vehicles running into them)
- Keep lids on, even empty containers
- Don’t mix good and expired products

Secondary Containment

- Use when there's a chance to have spills and leaks
- Required for 'Daily Use' products in motor pool

Chemical Compatibility

- Some things don't mix!
- Dangerous chemical reactions can occur

Batteries

+

Oil

=

Toxic Gas, Excessive Heat, Violent Reaction

Flammable

Acid

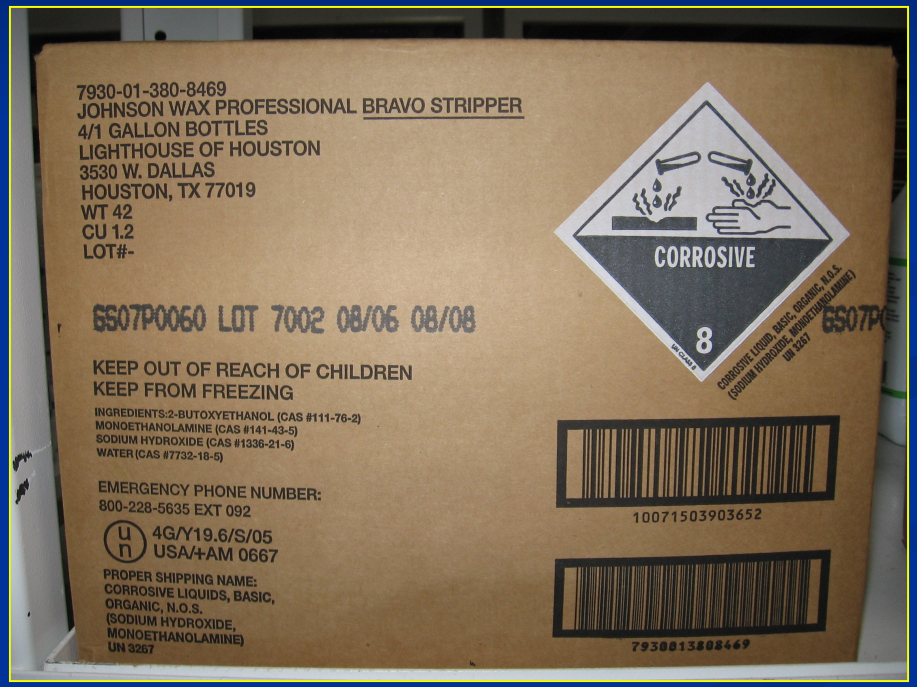
4 types of hazardous material

Base

Oxidizer

Test: which can be stored together?

SKILCRAFT
ECO SURE®
INDUSTRIAL
ENAMEL PAINT
FLAT OLIVE DRAB 34087
8010-01-331-6113
Provides Maximum Hiding and Protection on Wood and Most Plastics
Exceeds CID Requirements A-A-2787 Type I
VOC and MIR Compliant
Water and Corrosion Resistant
High Solids
DANGER! EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL OR FATAL IF SWALLOWED. IRRITATES EYES, SKIN AND

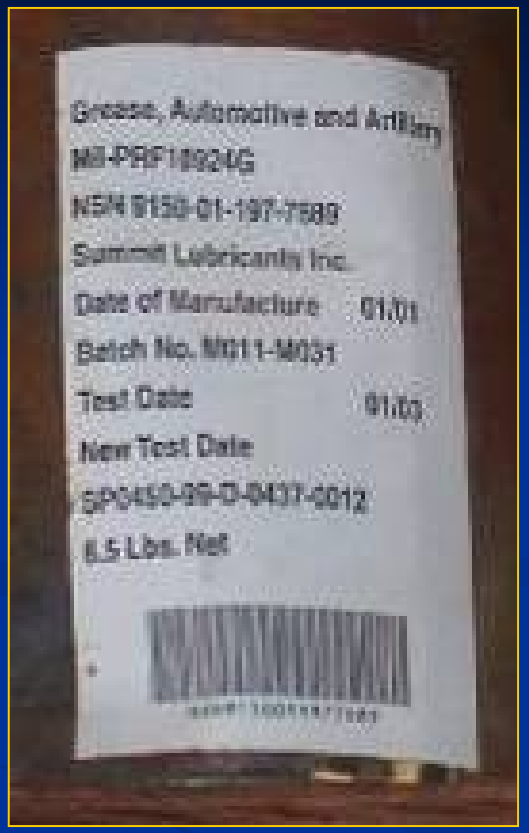


The Original Self-Emulsifying DEGREASER
GUNK
Engine Brite
HEAVY DUTY
ENGINE DEGREASER
for Older Greasy Engines with Two Stage Spray Tip
DANGER: FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. EYE AND SKIN IRRITANT. CONTENTS UNDER PRESSURE.

Hazmat shelf life

Hazmat has a shelf life, just like milk.

If the date is extended, write it on each container with a permanent marker



If the date is not extended, the expired products need to be separated from the useable products and turned in to DRMO.

Parts Washers

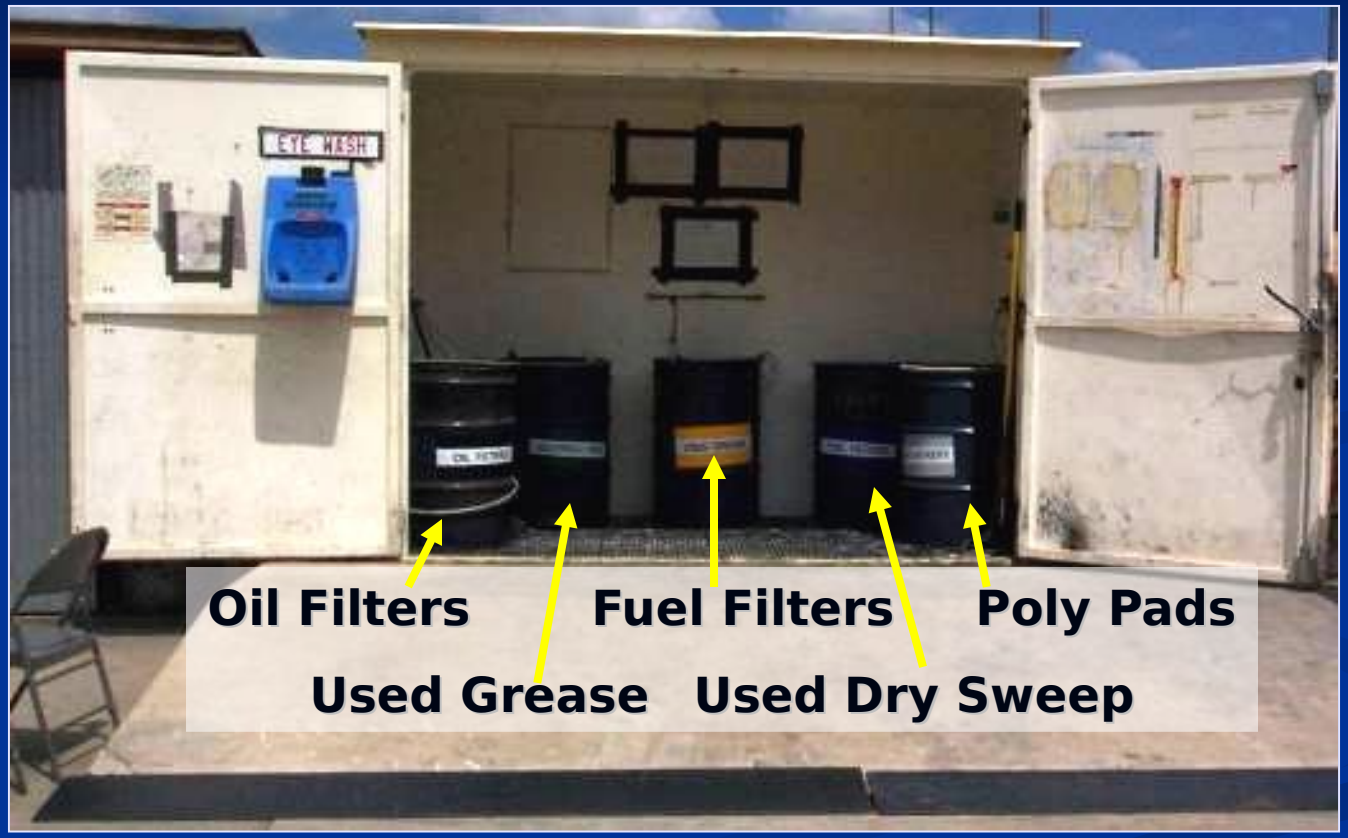
1. Only the Clarus (see image) authorized on Ft. Hood
2. You only use the machine; don't add, remove or filter solvent
3. *The lid MUST remain closed when not in use*

The UPRP – Used Product Reclamation Point

Inside building, five 55 gallon drums:

- Oil filters – drained
- Fuel filters – drained/air dried
- Grease
- Sweep-able absorbents
- Polypads (to include the paper-towel type rags often used in maintenance)

Inside The Building



Above-ground Storage Tanks (AST)

1. **Used Oil** tank for all petroleum based oil products
   - All motor oil
   - Transmission fluid*
   - Hydraulic fluids
2. **Off-Spec Fuel** is **only** for JP8
   - If you have gasoline or 'mogas', please contact the CU for a container to collect the off-spec fuel in.
3. **Used Antifreeze**
   - is for antifreeze only

POL Shed building

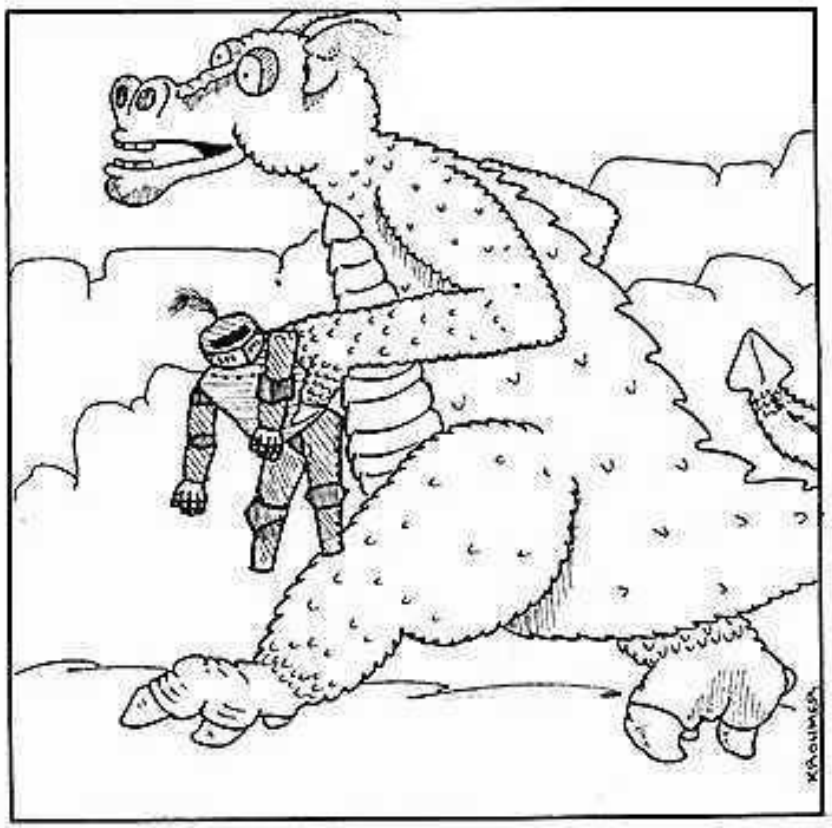
Recycling

Recycling on Ft. Hood:
Driving costs down and making money!

Mr. JayCee Turnquist, Ft. Hood Recycle Manager

What does the regulation say?

- "Participation in the Fort Hood Recycling Program is **a requirement, not an option.**"
- DPW-ENV works to provide containers and pick-up services
- Any recycle container can be used and any container can be a recycle container – just label it!



Dear, are these containers recyclable?

The Real Recyclables

- Containers are ONLY for the product listed on them
- Family housing: put all of paper, cans, cardboard and plastic bottles in together

Don’t use recycle containers for trash:

Trash in the recycle:

- Wastes man-hours removing trash
- Reduces profit; which keeps Ft. Hood from getting money back

Most trash comes from plastic – please no plastic bags, plastic wrap, Styrofoam or bubble wrap.

Metal
means Aluminum and Steel cans only

Plastic

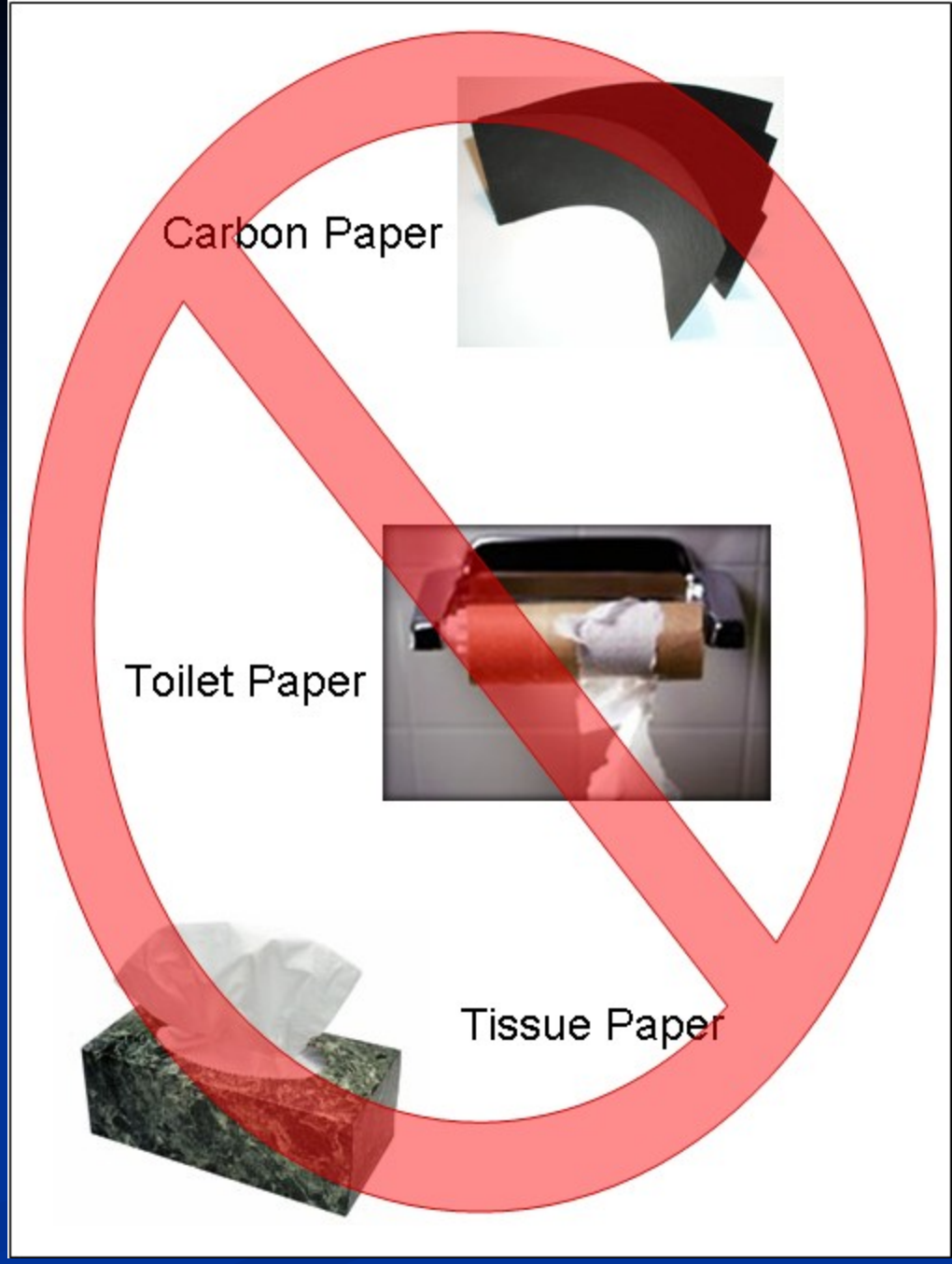
means all types of plastic except Styrofoam, plastic wrap and plastic bags

Plastic wrap

Bubble wrap

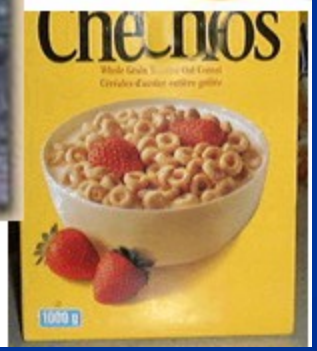
Packing Peanuts

Paper
means
All paper, news paper, white paper, mixed paper



Cardboard

means just cardboard; always break down boxes



Greasy Pizza Boxes

400-600 **tons** of Cardboard goes into the landfill monthly

Questions?

Need help?
Please call:
Office 287-2336
Manager 288-5307

Recycle also accepts lots of other things, such as:
Printer/Copier Cartridges
CD/DVDs, Wood pallets
Plastic military targets, Maps

And we have a huge shredder that can run through all your paper in minutes – no appointment necessary!

Do it yourself: Three-Bag, Pipe Frame Recycling Center

Materials List
Three 10' lengths 1" diameter PVC pipe twelve 1" tees
•Eight 1" elbows
•Eight spring clips (1 1/2", used to hold mop or broom handles)
•1 small can PVC pipe cleaner
•1 small can PCX cement

Notes
Cut pipe to the following lengths:
2 pcs. 31 3/4" long
4 pcs. 20 3/4" long
12 pcs 9 1/2" long
8 pcs. 2" long
2.Clean all cut edges with sandpaper.
3.Uses 13-gallon garbage bags.

$18.88 on Walmart.com

Spill Response

What to do when you have a Hazardous Material Spill on Ft. Hood

Real Simple:

The Basics of Spill Response:

1. SAFETY FIRST – DON'T BE A HERO
2. CALL THE FIRE DEPARTMENT
3. CONTAIN THE SPILL *WHEN POSSIBLE*
4. EVACUATE IF NEEDED

What can YOU do?

1. Judge the Situation
2. Take Immediate Action
3. Notification – contact the Fire Department at 287-3908

Everyone has different backgrounds

.

If YOU can't clean up a spill, call for help!

When reporting a spill

1. **LOCATION** of the spill (building # is best, intersection is okay, unit information isn't enough)
2. **MATERIAL SPILLED** JP-8, gasoline, batteries
3. **WHERE** the spill is coming from (tank, vehicle, container, etc.)
4. **WHERE** the spill is going (pooling on concrete, dirt, running down the ditch)
5. **CONDITIONS** (raining, on a slope, within a creek)
6. **CONTACT** information – name and phone number

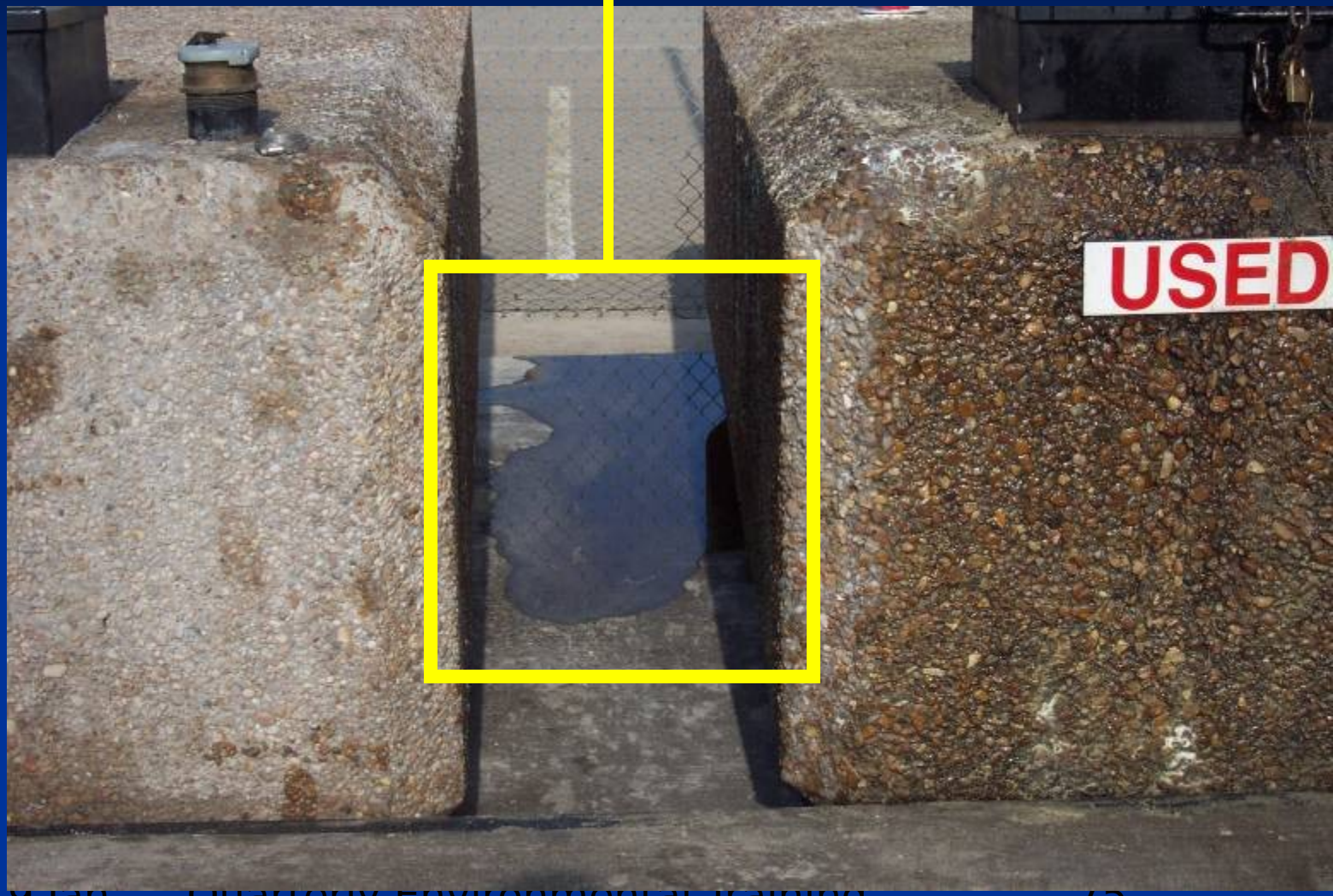
Procedures

- In Garrison: contact the Fire Department at 287-3908
- On Ranges/Training Areas: contact Range Control at 287-3130 or frequency 30.45
- Away from Ft. Hood: call 911 and notify local authorities

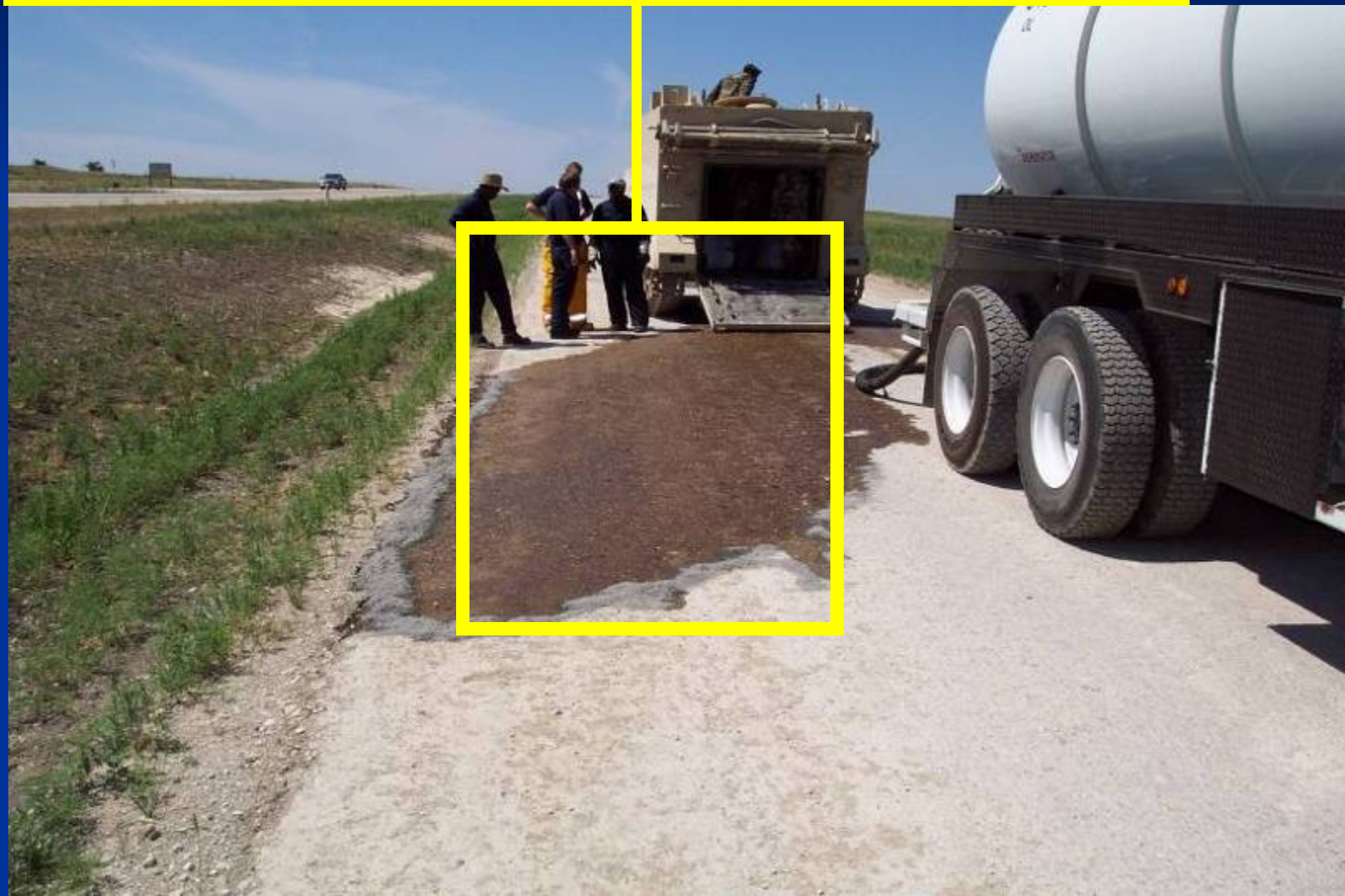
Reporting just to cover yourself? Great!

Let them know if you don't need help, get the name of who you

Even small spills must be cleaned up right away



For large spills, call 287-3908 or 911 for help right away

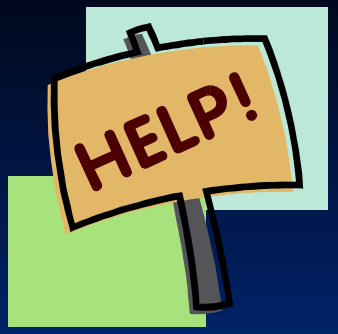


Large spills will require unit labor to clean up

Used Absorbents

- Collect at the motor pool in the Used Product Reclamation Point
- Turn in to the Classification Unit
  288-7627

Remember:



- Protect yourself first
- Clean up all spills
- Dispose of used absorbents correctly

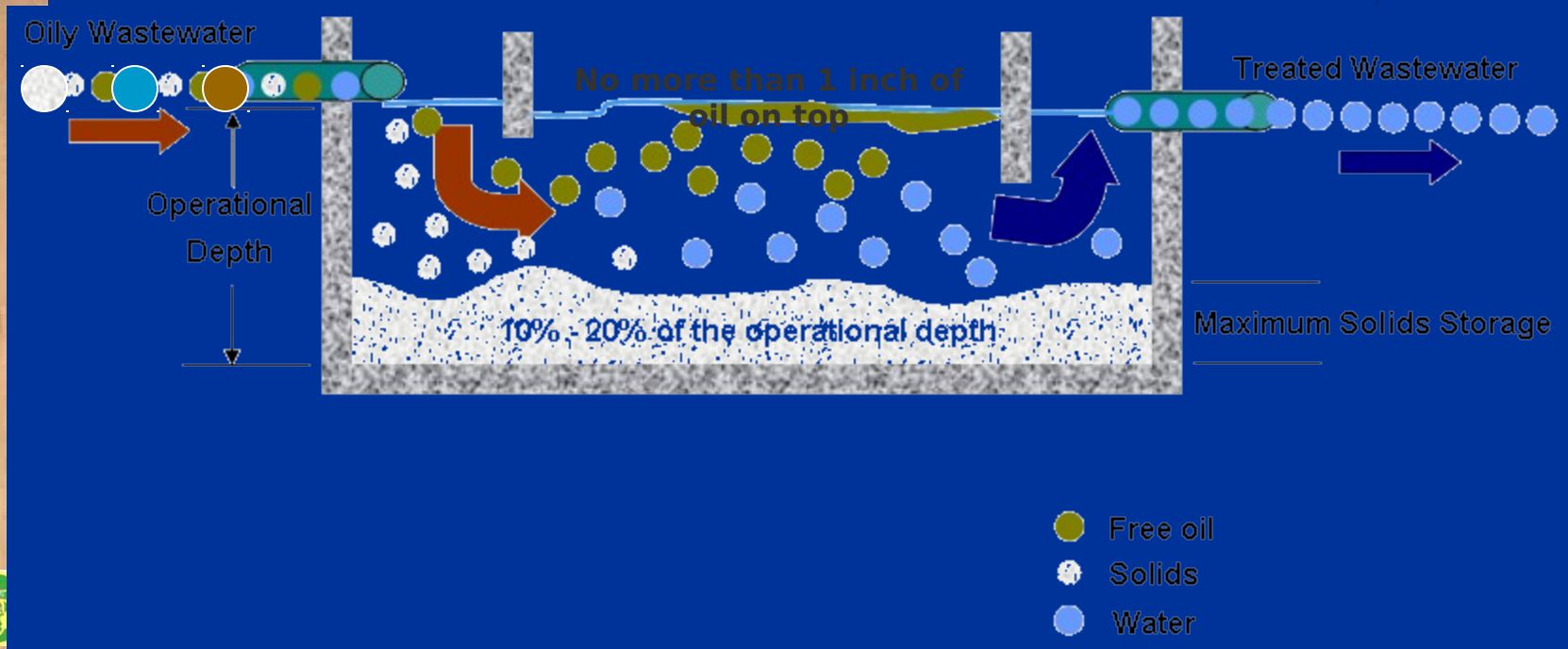
Don’t be afraid to call and ask for help

“Commanders and Activity Chiefs…
will procure sufficient spill containment
and clean-up supplies
and equipment.”

Oil Water Separators (OWS)

Protecting your water

How it works:


Oily Wastewater
No more than 1 inch of oil on top
Treated Wastewater
Operational Depth
10% - 20% of the operational depth
Maximum Solids Storage
Free oil
Solids
Water

Maintaining the OWS

1. Oil Water Separators Are Serviced By DPW-ENV
   - Call 286-5993 – the BioSite
   - Units remove trash first
   - NEVER ENTER AN Oil Water Separator!

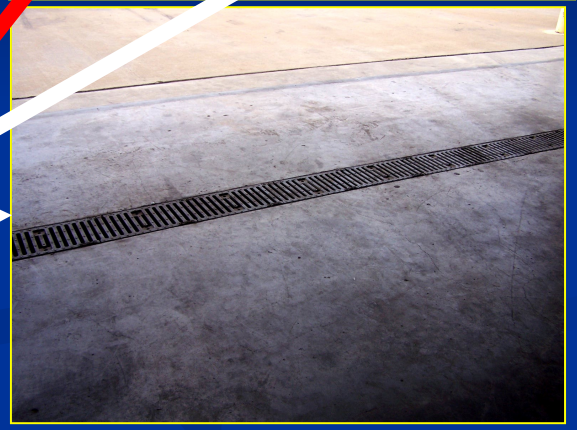
2. After servicing, re-fill the OWS with water to the previous water depth_
   - Do Not Use An Empty Or Partially Filled OWS

Contacts

Call 286-5993 for servicing

Test: where can the wash water go?

Never pour anything over the grates



Blocking and Bracing

Reuse and Disposal of Wood (Lumber) on Ft. Hood

Blocking, Bracing and Packaging

- **Unused** goes back to DOL Railhead
- **Used** goes back to DOL Railhead (no treated wood – goes to landfill)

POC is 288-7680

Scrap Wood

1. Remove nails, screws
2. Collect in the unit area
3. Unit transports to:
    a. Recycle Center
    b. Then to the Compost Center at the Landfill

Pallets

Serviceable:
- Turn in to Recycle Center,

Unserviceable:
- Becomes scrap wood, unit will managed as ‘scrap’

Family Housing
(Household) Wood

Tree limbs and lumber scrap

Leaves and grass clippings

POC is Inland Services, (254) 539-4697

For Christmas trees or larger items, please deliver them to the Compost Center

Questions?

Household Hazmat? Take to the CU.

Household electronics? Take to the CU.

Putting trash in someone else's trash can is illegal.

It is Wrong to throw away:

- Recyclables
- Hazardous Materials (new or used)
- Contaminated Trash

Let us help you!

Thank you!

254-287-6499